UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 10/01/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

| | 7590 | 10/01/2009 | | EXAMINER | |
|------------------|------|--------------------|--|----------|--------------|
| Hazim Ansari | | THOMAS, COURTNEY D | | | |
| Patent Metrix | | | | ART UNIT | PAPER NUMBER |
| 14252 Culver Dr. | | | | 2882 | |

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/554,654 02/07/2008 Edward James Mortor CXR103.ORD 9617

TITLE OF INVENTION: X-RAY TUBES

Box 914

Irvine, CA 92604

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/04/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

| appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new of maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | |
|--|---|---|---|--|---|---|--|
| Hazim Ansari Patent Metrix 14252 Culver D | | /2009 | I h Sta ado trai | Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. | | | |
| Box 914 Irvine, CA 9260 |)4 | | | | | (Depositor's name) | |
| 11 vine, 011 9200 | , , | | | | | (Signature) | |
| | | | L | | | (Date) | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | ₹ | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
| 10/554,654 TITLE OF INVENTION | 02/07/2008 N: X-RAY TUBES | · | Edward James Mortor | | CXR103.ORD | 9617 | |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE | FEE TOTAL FEE(S) DUE | DATE DUE | |
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 01/04/2010 | |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | 7 | | | |
| THOMAS, C | OURTNEY D | 2882 | 378-141000 | J | | | |
| CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON PLEASE NOTE: Unless an assignee is identified below, no assignee. | | | or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty | name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is o name will be printed. | | | |
| recordation as set for (A) NAME OF ASSI | th in 37 CFR 3.11. Comj IGNEE | pletion of this form is NO | T a substitute for filing an (B) RESIDENCE: (CIT) | assignment. Y and STATE OR CO | | | |
| 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | A check is enclosed. Payment by credit ca | rd. Form PTO-2038 | e the required fee(s), any de | | |
| a. Applicant claim NOTE: The Issue Fee an | atus (from status indicate ns SMALL ENTITY statu nd Publication Fee (if req | us. See 37 CFR 1.27. | d from anyone other than | | L ENTITY status. See 37 Cl | | |
| · | | | | D. (| | | |
| Authorized Signature | | | | | | | |
| Typed or printed name | | | Registration No on is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) | | | | |
| an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, 'Alexandria, Virginia 22: | ntiality is governed by 35 application form to the tions for reducing this bu Virginia 22313-1450. DC 313-1450. | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR | 1.14. This collection is es depending upon the indi the Chief Information Offic COMPLETED FORMS T | stimated to take 12 m vidual case. Any cor ser, U.S. Patent and 7 O THIS ADDRESS. | e public which is to file (and inutes to complete, includir ments on the amount of tit Trademark Office, U.S. Dep SEND TO: Commissioner | g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, | |

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|--------------|----------------------|--------------------------------|------------------|--|
| 10/554,654 | 02/07/2008 | Edward James Mortor | CXR103.ORD | 9617 | |
| 759 | 0 10/01/2009 | | EXAM | INER | |
| Hazim Ansari | | | THOMAS, COURTNEY D | | |
| Patent Metrix | | | ART UNIT | PAPER NUMBER | |
| 14252 Culver Dr. Box 914 Irvine, CA 92604 | | | 2882 DATE MAILED: 10/01/200 | 9 | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. Applicant(s) | | |
|--|---|--|---|
| | 10/554,654 | MORTOR ET AL. | |
| Notice of Allowability | Examiner | Art Unit | _ |
| | Courtney Thomas | 2882 | |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is and MPEP 1308. | n this application. If not included unication will be mailed in due course. THIS | Э |
| 2. ☑ The allowed claim(s) is/are <u>5-11 and 13-21</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). | been received. been received in Applicati | on No | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | IENT of this application. itted. Note the attached EX | AMINER'S AMENDMENT or NOTICE OF | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspers | | w (PTO-948) attached | |
| 1) hereto or 2) to Paper No./Mail Date | | | |
| (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 | .84(c)) should be written on t | he drawings in the front (not the back) of | |
| each sheet. Replacement sheet(s) should be labeled as such in to 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | sit of BIOLOGICAL MAT | ERIAL must be submitted. Note the | |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 6. ☐ Interview S Paper No. 7. ☐ Examiner's — | oformal Patent Application fummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance | |
| | | | |

Application/Control Number: 10/554,654

Art Unit: 2882

DETAILED ACTION

Page 2

Allowable Subject Matter

1. Claims 5-11 and 13-21 are allowed.

2. The following is an examiner's statement of reasons for allowance:

3. As per claim 5 and dependent claims 6-8, 13 and 14, the examiner

found no reference in the prior art that disclosed or made obvious a

transmission target X-ray tube, wherein a retardation electrode is electrically

connected to an anode via a resistor, wherein current flowing through the

resistor determines the potential of the retardation electrode with respect to the

electrode and including all limitations recited in independent claim 5.

4. As per claim 9 and dependent claims 10, 11 and 15-21, the examiner

found no reference in the prior art that disclosed or made obvious a

transmission target X-ray tube, wherein the anode has a thickness of 5

microns or less and including al limitations recited in independent claim 9.

5. Any comments considered necessary by applicant must be submitted no

later than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly

labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney Thomas whose telephone

Application/Control Number: 10/554,654 Page 3

Art Unit: 2882

number is (571) 272-2496. The examiner can normally be reached on M - F (9 $\,$

am - 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Ed Glick can be reached on (571) 272 2490. The fax

phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see

http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-

9197 (toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-

9199 (IN USA OR CANADA) or 571-272-1000.

/Courtney Thomas/

Courtney Thomas Primary Examiner

Art Unit 2882